RF Exposure Information.

References: *TCB Training Document*, Session 6, May12-16 2003, *TCB Exclusion List*, Appendix A, footnote #3, general population low threshold levels, at distances ≥2.5cm, revised 17 July 2002.

The TCB training document, states that TCB Excl List low thresholds are not appropriate for compliance demonstration of fixed devices, but are used as a secondary check on MPE levels.

This document shows that for a transmit duty factor of 6.3%, the worst-case source based time averaged output power from the TUNet 3205 is 22.714mW below the limits imposed by the referenced TCB Exclusion list.

Typically, the TUNet 3205 operates with a duty factor of 0.3%. However, given a worst-case scenario of network power outage reporting and clearing of accumulated messages followed by a typical transmit occurring within the same 30-minute period, the duty factor would be 6.3%.

Rated output power.	Power := $\frac{\frac{37 \text{ dBm}}{10}}{1000}$ Power = 5 W
Source based time averaged output power of TUNet 3205.	$DF := 6.3 \%$ $Gain_{ant} = 1.64$ $ERIP := Power \cdot DF \cdot Gain_{ant}$ $ERIP = 517.827 mW$
Source based time averaged output power Low threshold limit.	Threshold $_{\text{TCB}_\text{excl}_\text{list}} := \frac{120}{.222} \cdot \text{mW}$ Threshold $_{\text{TCB}_\text{excl}_\text{list}} = 540.541 \text{mW}$
Margin below the Low Threshold limit.	margin := Threshold $_{TCB_excl_list}$ – ERIP margin = 22.714mW

Table 1 Radiated Output Power for a TUNet 3205 with 6.3% Duty Factor.